AUTHOR INDEX

Aalderen, W.M.C. van 147
Accary, J.P. 283
Adam, R. 403, 419
Aherne, G.W. 359
Albright, D. 187, 189
Aldhous, M. 53
Allen, M. 321
Alvin, M. 17
Amouretti, M. 231
Arendt, J. 53, 359
Arnaud, C. 21
Ashkenazi, I. 357, 365
Auvil-Novak, S.E. 343
Auzéby, A. 113
Aymard, P. 151, 153

Baculard, A. 151, 153, 191
Barbason, H. 347
Bastide, M. 9
Baughman, R.P. 157, 195
Becker, H. 449
Bélanger, P.M. 215, 219, 235, 445
Benavides, M. 419
Berge, C. 303
Berlin, R.G. 291
Betlach, C.J. 161
Bicakova-Rocher, A. 113, 115, 119, 209
Bishop, A. M. 335
Bismuth, H. 403
Bogdan, A. 113
Bogdan, C. 77
Boldys, H. 311
Borner, K. 213
Bossolo, P.A. 65, 69
Bostrom, B. 431
Botbol, M. 209
Boughattas, A.N. 351
Boule, M. 191
Bouquet, S. 461
Boutet, M. 235
Bouvenot, G. 21
Bouzahzah, B. 347
Bowers, L. 13
Braly, P.S. 371
Brandenburg, U. 449
Brown, A. 163
Bruguerolle, B. 215, 223, 227, 239, 263
Brunner, L. J. 31
Buchi, K. 335, 355
Bugat, R. 393
Buijs, P. 99
Bureau, J.P. 1
Burns, J.T. 57
Busch, R. 179

Cal, J.C. 231
Cambar, J. 231, 239, 433, 437, 461
Canafax, D. 5, 13, 29
Canal, P. 393
Cano, J.P. 411
Carignola, R. 25
Carlebach, R. 357, 365
Carrière, V. 9
Carton, M. 393
Catroux, Ph. 239, 433, 437
Caussanel, J.P. 403, 419
Chaouat, D. 209
Cherrah, Y. 257
Chien, Y.W. 407
Chmara, E. 457
Cipolle, R. 5, 13, 29
Cloud, M. 285
Comis, S. 65
Conroy, T. 373
Costa-Barbé, A. 69
Coupe, M. 1
Courtois, Ph. 461
Couvreur, J. 153

D'Alonzo, G. 163, 167, 197
Dalzano, M. 69
Danober, L. 367
Darcourt, G. 107
De Nood, O.E. 247
De Prins, J. 259
Debry, G. 423
Decousus, H. 257
Descorps Declere, A. 403
Desgagné, M. 215, 235
Di Costonzo, G. 423
Dick, P. 103
Dorfman, P. 9
Dorian, C. 239, 433, 437
Dorrow, R. 281
Doré, F. 445
Drouin, P. 423
Dubois, B. 153
Duchatel, F. 61
Dumas, F. 231
Duncan, W.C. 123
Dupont, M. 223

Emmerich, B. 179, 361
Emslander, H. 171, 175, 179
English, J. 359
Erdmann, G. 29

Ferrari, E. 65, 69
Feuers, R. 287, 295, 381, 397
Finn, A. 321
Fioravanti, M. 69
Florentin, I. 43
Focan, C. 17, 21, 411

Focan-Henrard, D. 17, 21
Foppa, S. 65, 69
Fournier, C. 351
Franchimont, P. 17
Frankoff, H. 163, 167
Fraschini, F. 65

Ganes, J. 111
Garcia, L. 81
Garnier, P. 113
Gatti, G. 25
Gay, J.P. 257
Gerritsen, J. 147
Gervais, A. 209
Gianotti, L. 163
Gongalez, M.A. 161
Gonzalez-Brito, A. 73
Gorceix, A. 115, 119
Gorka, Z. 127
Gottheiner, H. 139
Graham, D. 307
Graves, N.M. 5
Grimfeld, A. 191
Gruber, S. 29
Guerrero, J.M. 73, 95

Haen, E. 171, 179, 277, 441
Halberg, F. 385
Hallek, M. 171, 179, 273, 361
Hara, C. 341
Harrist, R.B. 197
Haus, E. 77, 303
Haus, M. 303
Haus, R. 389
Hayes, D.K. 243
Heck, D. 49
Heckquet, B. 351
Heimer-Lang, D. 273
Hermida, R.C. 81
Heusinger, H. m171
Holle, L. 127
Houin, G. 393
Hrushesky, W. 5, 49, 385, 399, 427
Hsi, B.P. 111, 183
Humphries, T.J. 291
Hunter, J. 287, 295
Hynes, P. 29

Iglesias, T. 81
Infante-Rivard, G. 377

Jablecka, A. 457
Jarvi, E.J. 161
Johnson, H.B. 111
Johnson, R.F. 89
Jonkman, J.H.C. 247
Just, J. 191

Kabbaj, K. 35
Kalacinski, J. 311
Kapadia, A.S. 183
Kaufmann, D. 315
Kavanagh, J.J. 343
Kerkhof, F.A. 247
Kielczewska-Mrozikie 299
Kisicki, J.C. 161
Kita, T. 249
Kitay-Cohen, Y. 357, 365
Klein, F. 367
Klevecz, R.R. 371
Knol, K. 147
Koeter, G.H. 147
Kolopp, M. 423
Kondoh, H. 249
Kost, J. 415
Krakowski, I. 373
Krebs, B. 107
Kruse, J.S 131
Kunkel, G. 187, 189, 213
Kunze, R. 187
Kurogochi, Y. 249
Kwan, J.W. 343

Labrecque, G. 1, 135, 445, 465
Laerum, O.D. 383
Lakatua, D. J. 77, 303
Lalande, M. 219, 445
Lamy, R. 191
Lang, R. 273
Langenmayer, I. 171, 175, 441
Langevin, T. 431, 389
Langman, M. 315
Langner, B. 127
Lanning, R. 399
LeMay, R. 469
Lebre, P. 223
Leclerc, J.M. 377
Lederer, T. 441
Legre, G. 223
Leiken, J.B. 201
Lemaigre, G. 43, 351, 367
Lemmer, B. 127, 139, 253, 473
Lepage-Savary, D. 135
Levi, F. 43, 351, 373, 403, 419
Lin, K-T 377
Lodeiro, C. 81
Lote, K. 383
Loudon, R.G. 157, 195
Lowicki, Z. 457
Luisa Sartori, M.L. 25
Luke, D. R. 31
Luporsi, E. 373

Magni, P. 65
Magro, E. 25
Malherbe, E. 259
Malmary, M.F. 35, 61
Manchon, P. 259
Marbella, A. 307
Markiewicz, A. 311
Masera, R. 25

Mayer, J. 449
Mazy, V. 17, 21, 411
McGee, J. 295
Meadows, J. 469
Mechkouri, M. 43, 367, 373
Meier, A.H. 57
Méjean, L. 423
Meltzer, A.A. 197
Merki, H. 315
Merrouche, M. 283
Metzger, G. 119
Meyer, M.C. 205
Michels, K. 89
Migon, M. 283
Mikol, F. 85
Min, D. I. 5
Misset, J.L. 403, 419
Mitchell, P.J. 143
Mittelstaedt, R. m287
Moerchel, J. 39
Monge-Strauss, M.F. 85
Moore, J.G. 335, 355
Moore, R.Y. 89
More, S. 259
Morgan, N.O. 243
Morin, L.P. 89
Mormont, M.C. 347
Morris, R.W. 201
Motohashi, Y. 113, 115, 247, 453
Mrozikiewicz, A. 299, 457

Nakano, S. 317
Nakashima, T. 249
Nesbit, M.E., Jr. 431
Neumann, J. 315
Nicolau, G. Y. 77
Nilsestuen, J. 163
Nouguier, J. 115
Novak, R.D. 343

Offen, W. 285
Ogawa, N. 317, 341
Ohdo, S. 317
Ollangnier, M. 257
Oosterhuis, B. 247
Orr, W.C. 321
Oustrin, J. 35, 61, 393

Pacistti, G. 107
Pariat, C. 461
Pasley, J.N. 323
Patel, M. K. 201
Pati, A. 43
Peleg, L. 357, 365
Pelen, F. 231
Penzel, T. 449
Peter, J.H. 449
Pierre, R. 259
Piriou, A. 461
Place, V. 93
Pöllmann, B. 45
Pöllmann, L. 45
Popescu, M. 77
Popovich, A. 389
Postma, D.S. 147
Poulin, E. 135
Prat, M. 227, 263
Puig-Domingo, M. 73, 95

Rabatin, J. 5, 13, 29, 427
Rackley, R.J. 205
Rahmani, R. 411
Rambhau, D. 267
Ramesh Rao, R. 267
Ramsay, N. 431
Ratajczak, M. 49
Rauffus, C. 187
Ravid, M. 357, 365
Rayford, P.L. 323
Raymond, J.M. 231
Redfern, P.H. 143
Reichle, A. 361
Reinberg, A. 115, 119, 209, 247, 423
Reiter, R.J. 73, 95
Remien, J. 171, 441
Renard, J. 103
Richter, E. 277
Rico, D.M. 469
Rieber, P. 441
Rietveld, W.J. 99
Rigaud, D. 283
Rivard, G.E. 377
Rivest, R. 103
Roberge, A.G. 327, 331
Robinson, M.C. 321
Roemeling, R. 399, 427, 389
Rogers, C. 339
Röhmel, J. 315
Roulon, A. 351, 367
Rubin, N. 355
Ruis, J. 99
Ryan, C.F. 161

Sackett-Lundeen, L. 77, 303
Saldivar, J. 295
Sallman, A.L. 469
Salvadori, A. 25
Salvati, E. 107
Sanders, S. 335
Santana, C. 73, 95
Sardet, A. 191
Sauerbier, I. 271
Scheving, L.A. 381, 397
Scheving, L.E. 287, 295, 381, 397
Schick, H.D. 361
Schleicher, P. 441
Schmid, R. 273
Schmid, U. 273
Schulz, P. 103

Schumann, K. 277
Scott, P.H. 197
Senekowitsch, R. 361
Shirase, M. 249
Siebert, B. 187, 189, 213
Skrzypek, D. 311
Smaaland, R. 383
Smale, L. 89
Smolensky, M. 163, 167, 197, 307, 343
Sokolove, P.G. 123
Somani, S. 431
Sothern, R. 49, 385, 389, 399
Souetre, E. 107
Soulban, G. 465
Soussan, A. 419
Spencer, F. 111
Spierer, R. 189
Sqalli, A. 393
Staudinger, H.W. 213
Steinijans, V.W. 213
Stephan, K. 281
Stolz, J. 143
Stoohs, R. 449
Straughn, A.B. 161, 205
Streitberg, B. 281
Suermondt, M. 189
Sutherland, D. 13
Szabo, S. 339

Takano, T. 453
Tamarkin, L. 107
Thibault, L. 331
Thomas, P. 49
Tissot, R. 103
Tomlinson, J. 167
Touitou, Y. 113, 119, 209
Tournier, G. 151, 153
Tsai, T.H. 287, 295, 381, 397
Tuchman, M. 399, 427

Vadiei, K. 31
Van Tornout, J.M.A. 431
Varin, F. 377
Vatier, J. 283
Vener, K. 339
Vesley, D.L. 469
Vokac, Z. 383
Vollmuth, T. 49

Watanabe, K. 341
Weber, B. 373
Weber, N. 175
Wehr, T.A. 123
Weqscheider, K. 281
Werres, M. 273
Wharton, J.T. 343
Wick, M. 389
Widmer, J. 103
Wiemers, R. 253
Winters, C.J. 469
Witte, K. 473
Witzel, L. 315

Young, J.D. 381, 397

Zell, M. 201
Zhou, J. 411

SUBJECT INDEX

5,7-dihydroxtryptamine 131
5-fluorouracil 403, 419
6-mercaptopurine 377
85 Strantium-labeled microspheres 445

Acetylator phenotype 257
ACTH 69, 113
ACTH test 209
Activity rhythm 341
Activity-stress 341
Acute lymphoblastic leukemia 377
Acute renal failure 433
Acute toxicity 263
Acute tubular necrosis 433
Adenylate cyclase 139, 473
Adrenergic receptors 107
Adriamycin 385
Adult asthmatics 167
Aging 69
Airflow obstruction 147
Algorithm 259
Allergic asthma 189
Alloxan 287, 295
Ambroxol 195
Ambulatory activity 249
Amikacin 437
Aminoglycosides 437
Anorexia nervosa 65
Anti-cancer drugs 357, 365
Anti-depressants 143
Antibiotics 431
Antibody formation 49
Antibody levels 45
Antidepressant treatment 115
Antidepressants 123
Antifatigue drug 119
Aspirin 339
Asthma 151, 153, 201
Automated drug delivery 431
Automatic device 453
Axillary temperature 115

BCG 1
Behavior 273
Beta 2 adrenoceptors 171, 175, 441,
Beta 2 adrenoreceptors 189
Beta 2 microglobulin 361
Beta 163
Beta-EP 69
Beta-receptor 139
Biorhythmicity 85
Bleeding ulcer 307
Blood flow 445
Blood parameters 331
Blood pressure 449, 453
Bone marrow 381
Bronchial hyperreactivity 147
Bronchitis 195
Bronchoalveolar lavage 179
Bronchodilators 191
BUdR 371
Bupivacaine 223, 227, 263

Calcitonin 61
CAMP 473
CAMP content 139
Cancer patients 343
Carticain plus epinephrine 253
Catecholamines 299
Cats 331
Cefodizime 247
Cell cycle distribution 383
Cell kinetics 371
Cell proliferation 355
Chemiluminescence 9
Children 147, 151, 191, 197, 273
Children of short stature 81
Chloroform 235
Cholecysokinin 323
Chronesthesy 163
Chronic bronchitis 179
Chronochemotherapy 431
Chronohepatotoxicity 235
Chronoimmunology 25
Chronoimmunopharmacology 43
Chronokinetics 223, 257, 263
Chrononeprotoxicity 437
Chronopharmacodynamics 183
Chronopharmacokinetics 5, 13, 31, 127, 183, 247, 317, 457
Chronopharmacology 367
Chronosupplementation 311
Chronotherapeutics 423
Chronotherapy 307, 403, 407, 419, 427
Chronotolerance 43, 373
Chronotoxicity 31, 317, 357, 365
Ciclosporine 5, 13, 29, 31
Ciclosporine A 35, 41
Ciclosporine metabolites 5
Cimetidine 285
Circadian 17, 43, 81, 93, 113, 287, 295, 303, 323, 351, 355, 361, 367, 385, 397, 453
Circadian activity rhythm 131
Circadian pacemaker 123
Circadian proliferatin 347
Circadian rhythm 35, 57, 65, 69, 73, 89, 95, 111, 147, 151, 153, 163, 197, 201, 215, 231, 317, 343, 389, 399, 419
Circadian rhythms 1, 21, 191, 239, 243, 257, 273

Circadian study 383
Circadian timing 373
Circadian ultradian rhythms 423
Circadian variation 29, 135, 161, 171, 175, 205, 249, 271, 277, 299, 335, 411, 441, 457, 469
Circadian variations 45, 61, 267, 433, 465
Circannual 179
Circannual rhythm 1, 49
Circannual variations 17, 61
Cisplatin 351
Citellus tridecemlineatus 57
Clearance 205
Clomipramine 143
Clorgyline 123
Clotting times 465
Cobalamine absorption 311
Colorectal cancer 403, 419
Constant rate infusion 223
Continuous infusion 411
Controlled release 415
Corticosterone 57
Cortisol 69, 103, 247
Cosinor 231
Cough 195
Covalent binding 235
Cow's milk 377
Crowdedness 111
Cytochrome P-450 219
Cytostatic 367

Day-night variations 219
Depression 115
Desipramine 127
Diabetes 287, 295
Diehydropyrimidine-dehydrogenase 399
Diet 303
Dietary protein 327, 331
Diethylnitrosamine 347
Different intake times 213
Digoxin 457
Diurnal variation 253
DNA synthesis 371, 381, 397
Dog 205
Dose intensity 373, 427
Dosing schedule 167
Doxorubicin 385, 393
Drinking 249
Drowsiness 119
Drug metabolism 219
Drug studies 99
Duodenal ulcer 283, 285, 321
Duodenal ulcer symptoms 285

EEG 85
Electroconvulsive therapy 115
Emergency room patients 201
Endoscopic observation 341
Enzymuria 433, 437
Epilepsy 85
Erythrocyte membrane permeability 239
Erythrocytes 227
Ethanol 271, 339
Etoposide 373

Face fly 243
Famotidine 315
Fatigue 119
Feeding schedule 317
Fetotoxicity 271
FEV1 197
Fluoropyrimidines 399
Fluoxetine 143
Forced expiratory flows 191
Forebrain and plasma 127
Free-running 385
Free-running rhythms 143
Frontal cerebral cortex 73
Frontal tooth 253
FUDR 427

Gastrectomy 311
Gastric acid 335
Gastric acid secretion 283
Gastric pH 321
Gastric secretion 339
Gastric ulcer 291
Gastric ulcerogenesis 339
Gastrin 323
Gastrointestinal peptides 323
Geniculate 89
Gentamicin 461
GH 113
GH-RH 113
Glucose 35, 295
Glutathione 215
Gpp(NH)p 473
Grip strength 119
Growth hormone 81

H2 receptor antagonists 291, 315
Healthy humans 231
Hemodynamics 449
Hemolymph lipids 243
Hepatitis B vaccination 45
Hepatocarcinogenesis 347
Hibernation 57
Histamine-induced wheals 259
Histology 235
Host resistance 49
Human chronopharmacology 281
Human study 135
Humans 441
Hydromorphone 343
Hyperlipidemia 31
Hypogonadal 93
Hypothyroidism 73

Ibuprofen 39
Imipramine 127
Immobilization 331
Immune competence 49
Immune function 179
Immunosuppression 43
Implant 415
Infants 153
Inflammation 21
Influence of sex 61
Insulin 35, 295, 423,
Insulin dependent diabetes 299
Interferon alpha, beta 9
Intergeniculate leaflet 89
Interleukin-2 381, 397
Intestine 445
Intragastric acidity 315
Intraindividual reproducibility 277
Intravenous 431
Invasive blood pressure measurement 449
Iron absorption 311
Ischemia 433
Isoprenaline 473
Isoproterenol 163
IV perfusion 135

Jet-lag 53

K 239
Kidneys 445

LH 103
Light 123
Light exposure 73
Liver 397, 445
Liver concentration 215
Liver weight 215
Local anaesthetics 227, 263
Locomotor activity 143
Long term chroncorcicotherapy 209
Lung 397
Lymphocyte membrane antigens 187
Lymphocyte sub-population 187
Lymphocyte subsets 441

Macrophages 9
Males 93
Man 469
Marker rhythm 361
Mathematical models 183
Maturation 273
Mealtime 303
Melatonin 25, 53, 103, 107, 243, 357
Membrane permeability 227
Mepivacaine 227, 263
Methotrexate 359
Mice 1, 303, 357, 365
Microgravity 243
Mitomycin C 389
Mixed fourfold ANOVA model 281
Mixed function oxidase system 219
Modulated delivery 415
Monoamine oxidase inhibitor 131
Morning dosing of corticosteroids 209
Morphine analgesia 135
Morphine sulphate 343
Motor activity 123
Mouse 9, 367
Multicenter study 39
Murine tolerance 351

N-methyl aspartate 89
Na 239
Natural killer 25
NCPAP therapy 449
Nephrotoxicity 461
Nicotine 249
Nizatidine 285
Nocturnal acid secretion 321
Nocturnal acid suppression 291
Nocturnal asthma 157, 167, 171, 175
Non-Hodgkin lymphomas 383
Non-invasive delivery 407
Nonequidistant pharmacological data 259

Omeprazole 339
Oncology 355
Osteoarthritis 39
Osteopenia 209
Ovarian cancer 371
Ovariectomy 111, 323
Oxaliplatin 403

Pacemaker control 99
Pain 343
Pain and swelling 45
Pain threshold 253
Pain time profile 39
Pancreas allografts 5, 13
Passive cutaneous anaphylaxis 259
Peak expiratory flow values 213
Pediatric 431
PEF 197
Peptides 407
Peridural anesthesia 223
Peripheral mononuclear leucocytes 171, 175, 441
Pharmacodynamics 335
Pharmacogenetics 257
Pharmacokinetics 29, 151, 153, 161, 189, 213, 377, 393, 411
Phenobarbital 347

Phosphodiesterases 139
Photoperiod 111, 359
Pineal gland 95, 107
Pituitary-gonadal axis 65
Plasma iron 277
Plasma melatonin 65
Plasma proteins 21
Platinum analogs 351
Polymorphonuclear migration 1
Postsurigal analgesia 223
Procaterol 157
Programmable in time pumps 423
Prohormone ANF 469
Prolactin 57
Prothrombin complex 465
Psoralen 107
Pulptester DP 2000 253
Pumps 403, 419
Pyrimidines 399
Pyruvake kinase 287

Quinine 267

Ranitidine 321, 335
Rat 215, 465
Rat forebrain 139
Rat heart 473
Rat liver 219
Rats 111, 277, 327, 461
Reaction time 119
Recovery 357
Rectal mucosa 355
Recurring duodenal ulcer symptoms 285
Renin angiotensin system 437
Repetitive blood sampling 277
Respiratory tract 179
Rhythms 287, 359

Saliva levels 267
SC injection 135
Seasonal variation 49
Seasonal variations 327, 331, 461
Seasonality 307
Serotonin 131
Serum amino acids 327
Serum zinc concentrations 231
Sex differences 341
Single and chronic application 127
Skin basic resistance 299
Sleep apnea 449
Spectral analysis 259
Spirometric 163
Spleen 381
Spondylarthritis 17
Sputum 195
Stimulation 249
Suprachiasmatic nuclei 99, 131
Susceptibility 389
Susceptibility rhythm 385
Syncrhonizer 303

Target tissue 365
Temporal variation 235, 393
Testosterone 93
Theophylline 151, 153, 161, 167, 171, 183, 187, 189, 197, 205, 213, 317
Theophylline blood levels 201
Three-way interaction 281
Thymidine kinase 361
Thymus 381
Thyroxine 95
Thyroxine 5'-deiodinase 73
Thyroxine hormone metabolisms 95
Toxicity 351, 359, 389, 427
Transdermal controlled administration 407
Transgenital 93
Triazolam 89
Triiodothyronine 95
TSH 103
Tumor progression 361
Two-way interaction 281

Ulcer 341
Ultradian 17, 81, 453
Ultradian and circadian rhythm 115
Ultradian rhythms 103, 201

Vindesine 411
Volume of distribution 205

Warfarin 465
Wheeze 157
White blood cells 399

Xanthine oxidase 377
Xylose absorption 311